

M. Brannock

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/286,166

DATE: 02/10/2000  
TIME: 16:29:54

INPUT SET: S34717.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: FOWLKES, Dana M.  
BROACH, Jim  
MANFREDI, John  
KLEIN, Christine  
MURPHY, Andrew J.  
PAUL, Jeremy  
TRUEHEART, Joshua

ENTER

(ii) TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
PHERMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR

(iii) NUMBER OF SEQUENCES: 119

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: LAHIVE AND COCKFIELD  
(B) STREET: 60 State Street, Suite 510  
(C) CITY: Boston  
(D) STATE: MA  
(E) COUNTRY: USA  
(F) ZIP: 02109

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/286,166  
(B) FILING DATE:  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/461,383  
(B) FILING DATE: 05-JUN-1995

(A) APPLICATION NUMBER: US 08/322,137  
(B) FILING DATE: 13-OCT-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/309,313  
(B) FILING DATE: 20-SEP-1994

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/286,166DATE: 02/10/2000  
TIME: 16:29:54

INPUT SET: S34717.raw

47  
48 (vii) PRIOR APPLICATION DATA:  
49 (A) APPLICATION NUMBER: US 08/190,328  
50 (B) FILING DATE: 31-JAN-1994  
51  
52 (vii) PRIOR APPLICATION DATA:  
53 (A) APPLICATION NUMBER: US 08/041,431  
54 (B) FILING DATE: 31-MAR-1993  
55  
56 (viii) ATTORNEY/AGENT INFORMATION:  
57 (A) NAME: Vincent, Matthew P  
58 (B) REGISTRATION NUMBER: 36,709  
59 (C) REFERENCE/DOCKET NUMBER: CPI-012CP4B  
60  
61  
62 (ix) TELECOMMUNICATION INFORMATION:  
63 (A) TELEPHONE: 617-227-7400  
64 (B) TEEFAX: 617-227-5941  
65 (C) TELEX: 752806  
66  
67 (2) INFORMATION FOR SEQ ID NO:1:  
68  
69  
70 (i) SEQUENCE CHARACTERISTICS:  
71 (A) LENGTH: 89 amino acids  
72 (B) TYPE: amino acid  
73 (C) STRANDEDNESS: single  
74 (D) TOPOLOGY: linear  
75  
76 (ii) MOLECULE TYPE: peptide  
77  
78  
79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
80  
81 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser  
82 1 5 10 15  
83  
84 Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln  
85 20 25 30  
86  
87 Ile Pro Ala Glu Ala Val Ile Gly Tyr Leu Asp Leu Glu Gly Asp Phe  
88 35 40 45  
89  
90 Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu  
91 50 55 60  
92  
93 Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val  
94 65 70 75 80  
95  
96 Ser Leu Asp Lys Arg Glu Ala Glu Ala  
97 85  
98  
99 (2) INFORMATION FOR SEQ ID NO:2:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/286,166DATE: 02/10/2000  
TIME: 16:29:54

INPUT SET: S34717.raw

100  
101 (i) SEQUENCE CHARACTERISTICS:  
102 (A) LENGTH: 76 amino acids  
103 (B) TYPE: amino acid  
104 (D) TOPOLOGY: linear  
105  
106 (ii) MOLECULE TYPE: peptide  
107  
108  
109 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
110  
111 Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr Lys Arg Glu  
112 1 5 10 15  
113  
114 Ala Glu Ala Glu Ala Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro  
115 20 25 30  
116  
117  
118 Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp His Trp Leu Gln Leu  
119 35 40 45  
120  
121 Lys Pro Gly Gln Pro Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp  
122 50 55 60  
123  
124 His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr  
125 65 70 75  
126

127 (2) INFORMATION FOR SEQ ID NO:3:  
128  
129 (i) SEQUENCE CHARACTERISTICS:  
130 (A) LENGTH: 15 base pairs  
131 (B) TYPE: nucleic acid  
132 (C) STRANDEDNESS: double  
133 (D) TOPOLOGY: linear  
134  
135 (ii) MOLECULE TYPE: synthetic DNA  
136  
137  
138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
139

140 AAGCTTAAAA GAATG

15

141  
142 (2) INFORMATION FOR SEQ ID NO:4:  
143  
144 (i) SEQUENCE CHARACTERISTICS:  
145 (A) LENGTH: 37 base pairs  
146 (B) TYPE: nucleic acid  
147 (C) STRANDEDNESS: single  
148 (D) TOPOLOGY: linear  
149  
150 (ii) MOLECULE TYPE: cDNA  
151  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/286,166DATE: 02/10/2000  
TIME: 16:29:55

INPUT SET: S34717.raw

153 (ix) FEATURE:  
154 (A) NAME/KEY: CDS  
155 (B) LOCATION: 1..24  
156  
157  
158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
159  
160 AAA GAA GAA GGG GTA TCT TTG CTT AAGCTCGAGA TCT 37  
161 Lys Glu Glu Gly Val Ser Leu Leu  
162 1 5  
163  
164  
165 (2) INFORMATION FOR SEQ ID NO:5:  
166  
167 (i) SEQUENCE CHARACTERISTICS:  
168 (A) LENGTH: 8 amino acids  
169 (B) TYPE: amino acid  
170 (D) TOPOLOGY: linear  
171  
172 (ii) MOLECULE TYPE: peptide  
173  
174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
175  
176 Lys Glu Glu Gly Val Ser Leu Leu  
177 1 5  
178  
179 (2) INFORMATION FOR SEQ ID NO:6:  
180  
181 (i) SEQUENCE CHARACTERISTICS:  
182 (A) LENGTH: 77 base pairs  
183 (B) TYPE: nucleic acid  
184 (C) STRANDEDNESS: double  
185 (D) TOPOLOGY: linear  
186  
187 (ii) MOLECULE TYPE: synthetic DNA  
188  
189  
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
191  
192 CGTGAAGCTT AAGCGTGAGG CAGAAGCTNN KNNKNNKNNK NNNKNNKNNK NKNNKNNKNN 60  
193  
194 KNNKNNKTGA TCATCCG 77  
195  
196 (2) INFORMATION FOR SEQ ID NO:7:  
197  
198 (i) SEQUENCE CHARACTERISTICS:  
199 (A) LENGTH: 19 amino acids  
200 (B) TYPE: amino acid  
201 (D) TOPOLOGY: linear  
202  
203 (ii) MOLECULE TYPE: peptide  
204  
205

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/286,166DATE: 02/10/2000  
TIME: 16:29:55

INPUT SET: S34717.raw

206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

207

208 Lys Arg Glu Ala Glu Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

209 1 5 10 15

210

211 Xaa Xaa Xaa

212

213

214

215 (2) INFORMATION FOR SEQ ID NO:8:

216

217 (i) SEQUENCE CHARACTERISTICS:

218 (A) LENGTH: 36 amino acids

219 (B) TYPE: amino acid

220 (D) TOPOLOGY: linear

221

222 (ii) MOLECULE TYPE: peptide

223

224

225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

226

227 Met Gln Pro Ser Thr Ala Thr Ala Ala Pro Lys Glu Lys Thr Ser Ser

228 1 5 10 15

229

230 Glu Lys Lys Asp Asn Tyr Ile Ile Lys Gly Val Phe Trp Asp Pro Ala

231 20 25 30

232

233 Cys Val Ile Ala

234 35

235

236 (2) INFORMATION FOR SEQ ID NO:9:

237

238 (i) SEQUENCE CHARACTERISTICS:

239 (A) LENGTH: 19 base pairs

240 (B) TYPE: nucleic acid

241 (C) STRANDEDNESS: single

242 (D) TOPOLOGY: linear

243

244 (ii) MOLECULE TYPE: synthetic DNA

245

246

247 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

248

249 AAGCTTTCGA ATAGAAATG

19

250

251 (2) INFORMATION FOR SEQ ID NO:10:

252

253 (i) SEQUENCE CHARACTERISTICS:

254 (A) LENGTH: 36 base pairs

255 (B) TYPE: nucleic acid

256 (C) STRANDEDNESS: double

257 (D) TOPOLOGY: linear

258

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/286,166**

DATE: 02/10/2000  
TIME: 16:29:55

***INPUT SET: S34717.raw***

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Original Text